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... consistently adjust the tail or head pointer by performing a compare-and-swap 137

Page 5. operation. Since we implement the queue as a circular array, each queue ...

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... always access the counter with the pointer in any ... compare and swap, or else use array

indices instead ... is vulnerable to memory leakage with circular structures. ...

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... Suppose a process accesses a pointer to a node and ... implement a cir- cular list based

on a finite array. ... In this way, the circular list success- fully serves as ...

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... based on a circular singly-linked list ... a pointer, to always access the counter with

the pointer in any ... word compare-and- swap, or else use array indices instead ...

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... a non-blocking queue based on a circular singly-linked ... to always access the counter

with the pointer in any ... compare-and-swap, or else use array indices instead ...

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[CITATION] [Practical, Fast and Simple Concurrent FIFO Queues Using Single Word Synchronization Primitives](#)

C Evequoz - Reliable Software Technologies-ADA-Europe 2008, 13th ADA- ... 2008 - Springer

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A Jarrabin, G Moore, J Porcari, F Vardaro, M ...

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[... flags with concurrent non-blocking insert and remove operations using a double compare-and-swap ...](#)

NH Sherif, PA Martin, GL Steele Jr - US Patent 7,009,234, 2006 - Google Patents

... performing the DCAS operation on the two pointer word and ... of a deque implemented

as an array in accordance ... of the linear depiction of a circular buffer, namely ...

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... preemption or swapping. ... balancers, in a manner similar to the way in which comparison ...

pointer (either preassigned or chosen at random) to some output pointer ...

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PTY Zheng - SPAA 2001, Thirteenth Annual ACM Symposium on Parallel ... 2001 - cs.chalmers.se

... way by designing the queue as a circular array we overcome ... pointer head 5. process

b enqueues data and updates the ... describe that an entry in the array is empty ...

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DR Musser, AA Stepanov - Software - Practice and Experience, 1994 - exch.hpl.hp.com
... An array representation of sequences commonly uses a set of ... a linked-list representation uses a set of pointers, usually with the null pointer as the off ...
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A methodology for implementing highly concurrent data structures

M Herlihy - Proceedings of the second ACM SIGPLAN symposium on ..., 1990 - portal.acm.org
... imple-mentation, employing fetch&add and swap, that per ... stack = record[size: integer, data: array[item ... new version (#2). If a pointer comparison indicates that ...
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A simple and correct shared-queue algorithm using compare-and-swap

JM Stone - Proceedings of the 1990 conference on Supercomputing table ..., 1990 - portal.acm.org
... 1. 2. 3. Procedure Enqueue (i, qcuc-array, qcuc-ptns) ... b. Try to set the tail pointer. Stay in the retry loop until the Compare-and-Swap succeeds. ...
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[PDF] ► calable Synchronization on

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... Compare-and-swap (addr, old ... 2.3. Array-Based Queuing Locks Even using a ticket lock with proportional backoff, it is not possible to obtain a lock with an ...
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D Buntinas, G Mercier, W Grupp - Proceedings of the International Symposium on Cluster ..., 2006 - doi.ieeecomputersociety.org
... If the compare-and-swap succeeds in swapping ... Each process keeps an array of pointers to the receive ... offsets means that accessing a pointer requires performing ...
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Wait-free parallel algorithms for the union-find problem - ► [washington.edu](http://www.washington.edu) [PS]

RJ Anderson, H Wolf - Proceedings of the twenty-third annual ACM symposium on ..., 1991 - portal.acm.org
... list and compare@swap are universal while test&set is not ... lhy [Her90] studied the implementation of a num-ber of data structures in terms of compare@swap. ...
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CH Shann, TL Huang, C Chen - Proceedings of the Seventh International Conference on ..., 2000 - doi.ieeecs.org
... Section 3 describes a new array-based concurrent queue algorithm ... Each time a process creates a pointer to a ... counter reflects the num-ber of pointers that point ...
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A nonblocking algorithm for shared queues using compare-and-swap

S Prakash, YH Lee, T Johnson - Computers, IEEE Transactions on, 1994 - ieeexplore.ieee.org

... is impractical, as it requires an infinite array size for ... NONBLOCKING ALGORITHM FOR
SHARED QUEUES USING COMPARE-AND-SWAP ... the nextobject pointer from ENQ to DEQ ...
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S Prakash, YH Lee, T Johnson - Computers, IEEE Transactions on, 1994 - ieeexplore.ieee.org
... permits an arbitrary number of enqueueers and dequeuers but is impractical, as
it requires an infinite array size for ... The pointer is a double-size variable ...

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... and 132 arc private variables, and C is a double-size shared ... to the queue, a process
sets the tail pointer to the ... Procedure Enqueue (i, qucuc-array, qucuc-plrs ...

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V Luongcong, M Moir, N Shavit - Proceedings of the fifteenth annual ACM symposium on ... 2003 - portal.acm.org
... SNAPSHOTS(m, a[1..m]) operation returns an array V [1 ... that the low-order bit of every
pointer is zero ... 4.3 DCCS and CAS To implement a double-compare single-swap ...

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[CAS-Based Lock-Free Algorithm for Shared Deques](#) - [► ibm.com](#) (PDF)

MM Michael - LECTURE NOTES IN COMPUTER SCIENCE, 2003 - Springer
... the anchor pointers from holding arbitrary pointer values, thus ... The size of the array
can be chosen such ... allow dynamic deque size using double-width single ...

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RA Aydi - University of Illinois at Urbana-Champaign, Department of ... 1993 - wright.kent.ac.uk
... to perform the byte swapping operations. ... 43 delete structureP; 44 Array *destinationPE =
messageRecord ... FieldDescriptor("timestamp", attributes, DOUBLE, 0); 50 ...

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